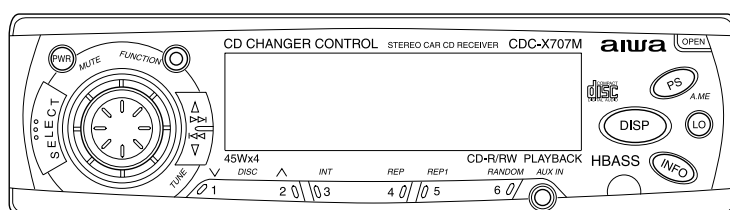


CDC-X707M CDC-X7070M

YU

YL



SERVICE MANUAL

STEREO CAR CD RECEIVER

BASIC CD MECHANISM : CDC02AW1

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CDC-X707M/X7070M (YU, YL), (S/M Code No. 09-002-424-3T1).

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range	87.5 MHz – 108 MHz (100 kHz steps)* 87.5 MHz – 108 MHz (50 kHz steps)*
Usable Sensitivity	12.7 dBf
50 dB Quieting Sensitivity	17.2 dBf
IF Rejection	80 dB
Frequency Response	30 Hz – 15,000 Hz
S/N Ratio	63 dB
Stereo Separation	35 dB at 1 kHz
Alternate Channel Selectivity	70 dB
Capture Ratio	3 dB

(AM)

Frequency Range	530 kHz – 1,710 kHz (10 kHz steps)* 531 kHz – 1,620 kHz (9 kHz steps)*
Usable Sensitivity	30 µV (30 dB)

* Set the frequency increment for your area using the switch on the bottom of the unit.

(The switch is set at the factory to the 10k position [for the U.S.A.])

CD SECTION

Frequency Response	17 Hz – 20 kHz +0/-3 dB
Dynamic Range	More than 80 dB
Channel Separation	More than 65 dB
S/N Ratio	More than 85 dB
Wow/Flutter	Unmeasurable

AUDIO SECTION

Max. Power Output	45 W x 4 channels
--------------------------	-------------------

TAPE IN input

Input Sensitivity (load impedance)	
AUX IN	300 mV (10 kΩ)

GENERAL

Power Supply Voltage	14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance	4 Ω
Tone Control	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Preamp Output Voltage (load impedance)	2.2 V (10 kΩ)
Installation Size	182 (W) x 53 (H) x 155 (D) mm (7 ¹ / ₄ (W) x 2 ¹ / ₈ (H) x 6 ¹ / ₈ (D) inches)

STEERING-WHEEL-MOUNTED REMOTE CONTROL UNIT

Dimensions	Approx. 67 (W) x 26 (H) x 27 (D) mm (2 ³ / ₄ (W) x 1 ¹ / ₁₆ (H) x 1 ¹ / ₈ (D) inches) (excluding folder)
Weight	Approx. 38 g (1.33 oz.) (including holder, battery)

- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

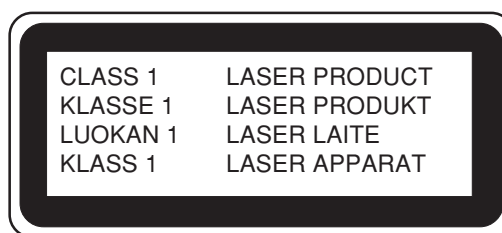
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

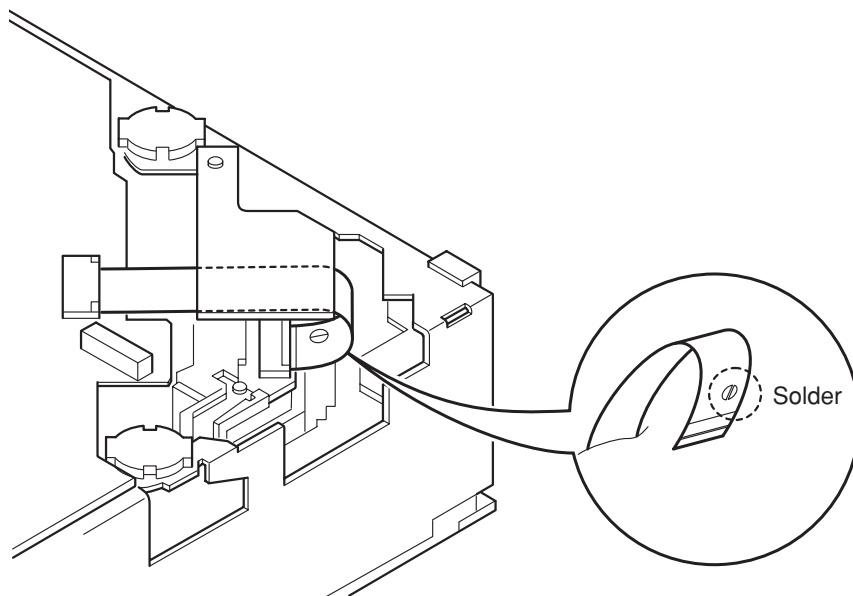
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS – 710A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



CAUTION WHEN SERVICING

1. Disassembly Instruction

- 1) Remove the COVER TOP / COVER BOTTOM.
- 2) Remove DFP.
- 3) Remove the four screws (indicated by arrows) from CD mechanism.

Screw (a) × 2: VTT 2.6-6

Screw (b) × 2: VTT 2.6-3B

(Fig. 1)

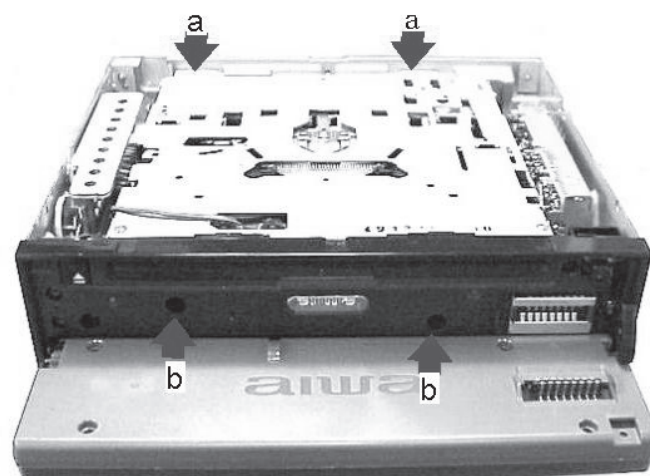


Fig. 1

2. Servicing Position

Check operations in stable position.

Example: Use PLATE or the like.

(Fig. 2)

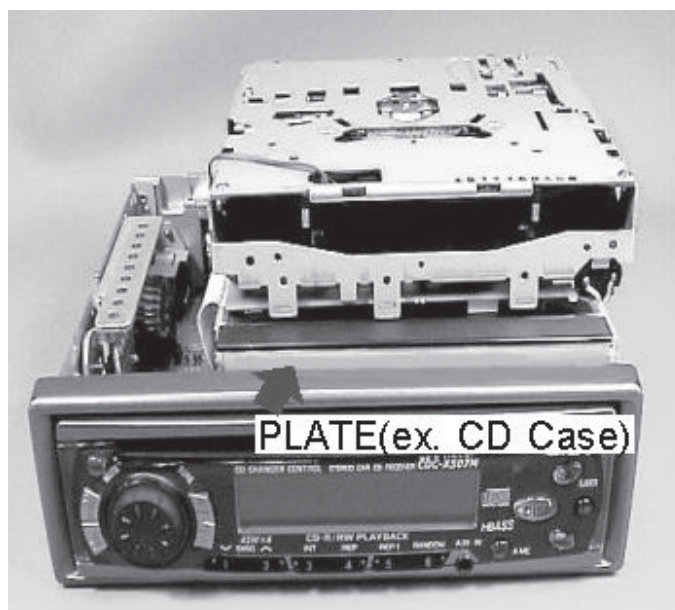


Fig. 2

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C122	87-010-220-080		C-CAP,S 0.018-25 B<YL>
	8Z-KT1-622-010		C-IC,LC75374E	C122	87-012-365-080		C-CAP,S 0.027-25VBK<YU>
	87-A21-562-010		IC,LA4743B	C123	87-010-178-080		CHIP CAP 1000P-50
	88-KT1-608-010		C-IC,LC75854W	C125	87-010-197-080		CAP, CHIP 0.01-25
	87-A90-951-010		RCR UNIT,SBX1971-52	C126	87-010-197-080		CAP, CHIP 0.01-25
	87-A21-622-030		C-IC,UPD178006AGC-540-3B9<YL>				
	87-A21-623-030		C-IC,UPD178016AGC-562-3B9<YU>	C128	87-010-197-080		CAP, CHIP 0.01-25
	88-KT1-606-080		IC,PST994D	C210	87-016-669-080		C-CAP,S 0.1-25 K B
	87-020-784-080		IC,TC4053BF	C211	87-010-182-080		C-CAP,S 2200P-50 B
	87-A21-467-010		C-IC,CXA2581N	C212	87-015-629-080		CHIP CAPACITOR, 0.0022
	87-A21-533-030		C-IC,CXD2587Q	C251	87-012-368-080		C-CAP,S 0.1-50 K B
	87-017-888-080		IC,NJM4558MD				
	87-A21-534-030		C-IC,UPD78012FGC656-AB8	C252	87-010-182-080		C-CAP,S 2200P-50 B
	87-A21-161-040		C-IC,BA6392FP	C253	87-018-119-080		CAP, TC U100P-50V
	87-A20-712-040		C-IC,BA6417F	C254	87-010-322-080		C-CAP,S 100P-50 CH
				C255	87-018-119-080		CAP, TC U100P-50V
				C256	87-018-119-080		CAP, TC U100P-50V
TRANSISTOR							
	87-026-235-080		CHIP-TR,DTC114EK	C257	87-018-119-080		CAP, TC U100P-50V
	87-A30-289-040		C-TR,2SA1037AK(R)	C258	87-010-297-080		C-CAP,S 100P-50 CH
	89-324-122-080		C-TR,2SC2412KR	C259	87-018-119-080		CAP, TC U100P-50V
	87-A30-218-080		TR,2SB1237(Q)<YL>	C260	87-018-119-080		CAP, TC U100P-50V
	87-A30-287-040		C-TR,DTC114TKA	C261	87-018-205-080		CAP, TC U 0.022-25
	87-A30-300-080		TR,2SB1277				
	87-A30-299-080		TR,2SB1326	C264	87-010-553-040		CAP,E 47-16 GAS
	87-A30-302-040		C-TR,2SD1758-F5	C265	87-010-498-040		CAP,E 10-16 GAS
	87-A30-298-080		TR,2SD2396	C266	87-010-194-080		CAP, CHIP 0.047-25
	89-211-323-080		C-TR,2SB1132R	C268	87-010-498-040		CAP,E 10-16 GAS
				C269	87-010-555-040		CAP,E 100-10 GAS
	87-A30-279-040		C-TR,DTC314TK				
	89-423-953-010		TR,2SD2395F	C270	87-010-555-040		CAP,E 100-10 GAS
	87-A30-248-040		C-TR,2SB1197KQ	C280	87-015-629-080		CHIP CAPACITOR, 0.0022-50
	87-A30-011-080		C-TR,DTB113ZK	C281	87-012-368-080		C-CAP,S 0.1-50 F<YL>
	87-A30-273-040		C-TR,DTC124EKA	C282	87-012-368-080		C-CAP,S 0.1-50 F<YL>
				C283	87-012-368-080		C-CAP,S 0.1-50 F<YL>
	87-026-210-040		C-TR,DTC144EK				
DIODE				C284	87-012-368-080		C-CAP,S 0.1-50 F<YL>
	87-A40-250-080		C-DIODE,DAN217	C401	87-010-805-080		C-CAP,S 1-16<YU>
	87-001-783-080		DIODE,1N4002	C402	87-010-805-080		C-CAP,S 1-16<YU>
	87-070-136-080		ZENER,MTZJ5.1B	C403	87-010-805-080		CAP, S 1-16
	87-A40-798-010		DIODE,1N5402 (3A/200V)	C404	87-010-805-080		CAP, S 1-16
	87-A40-523-080		ZENER,MTZJ9.1B				
	87-070-334-080		ZENER,MTZJ10B	C407	87-010-805-080		CAP, S 1-16
	87-A40-509-080		ZENER,MTZJ6.8C	C408	87-010-805-080		CAP, S 1-16
	87-A40-189-080		DIODE,1SR139-400	C409	87-010-498-040		CAP,E 10-16 M 5L SRE
	87-020-465-080		DIODE,1SS133 (110MA)	C410	87-010-498-040		CAP,E 10-16 M 5L SRE
	87-A40-624-080		ZENER,MTZJ10A	C411	87-010-805-080		CAP, S 1-16
	87-020-585-080		CHIP-ZENER,02CZ6.2Y				
	87-A40-620-080		ZENER,MTZJ6.2A	C412	87-010-805-080		CAP, S 1-16
	87-017-932-080		ZENER,MTJ6.2B	C413	87-010-498-040		CAP,E 10-16 M 5L SRE
	87-A40-650-080		ZENER,MTZJ6.8A	C414	87-010-498-040		CAP,E 10-16 M 5L SRE
	87-020-331-080		C-DIODE,DAN202K	C415	87-010-498-040		CAP,E 10-16 M 5L SRE
				C416	87-010-498-040		CAP,E 10-16 M 5L SRE
MAIN C.B.							
C102	87-010-197-080		CAP, CHIP 0.01-25	C417	87-010-498-040		CAP,E 10-16 M 5L SRE
C103	87-010-322-080		C-CAP,S 100P-50 CH	C418	87-010-498-040		CAP,E 10-16 M 5L SRE
C104	87-010-498-040		CAP,E 10-16 GAS	C419	87-010-498-040		CAP,E 10-16 M 5L SRE
C105	87-010-498-040		CAP,E 10-16 GAS	C420	87-010-555-040		CAP,E 100-10 GAS
C106	87-010-322-080		C-CAP,S 100P-50 CH	C421	87-010-805-080		CAP, S 1-16
C107	87-010-322-080		C-CAP,S 100P-50 CH	C422	87-010-805-080		CAP, S 1-16
C108	87-010-805-080		CAP, S 1-16	C423	87-010-805-080		CAP, S 1-16
C109	87-010-805-080		CAP, S 1-16	C424	87-010-805-080		CAP, S 1-16
C110	87-010-186-080		CAP,CHIP 4700P-50	C425	87-012-140-080		CAP 470P-50
C111	87-010-196-080		CHIP CAPACITOR,0.1-25	C426	87-012-140-080		CAP 470P-50
C112	87-010-197-080		CAP, CHIP 0.01-25	C427	87-012-140-080		CAP 470P-50
C113	87-010-495-040		CAP,E 2.2-50 GAS	C428	87-012-140-080		CAP 470P-50
C119	87-010-196-080		CHIP CAPACITOR,0.1-25	C429	87-010-498-040		CAP,E 10-16 M 5L SRE
C121	87-010-220-080		C-CAP,S 0.018-25 B<YL>	C430	87-010-498-040		CAP,E 10-16 GAS
C121	87-012-365-080		C-CAP,S 0.027-25VBK<YU>	C431	87-010-184-080		CHIP CAPACITOR 3300P-50
				C432	87-010-184-080		CHIP CAPACITOR 3300P-50
				C433	87-010-198-080		CAP, CHIP 0.022-25
				C434	87-010-198-080		CAP, CHIP 0.022-25
				C435	87-A11-177-080		C-CAP,S 0.15-16 K B
				C436	87-A11-177-080		C-CAP,S 0.15-16 K B
				C437	87-A11-177-080		C-CAP,S 0.15-16 K B
				C438	87-A11-177-080		C-CAP,S 0.15-16 K B
				C439	87-010-196-080		CHIP CAPACITOR,0.1-25
				C440	87-012-141-080		CHIP-CAPACITOR,0.22-16F
				C441	87-012-141-080		CHIP-CAPACITOR,0.22-16F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C461	87-010-450-080		CAPACITOR 0.47-16	C702	87-010-196-080		CHIP CAPACITOR,0.1-25
C462	87-012-358-080		C-CAP,S 0.47-10 F Z	C703	87-010-805-080		CAP, S 1-16
C463	87-012-358-080		C-CAP,S 0.47-10 F Z	C704	87-010-805-080		CAP, S 1-16
C464	87-010-196-080		CHIP CAPACITOR,0.1-25	C705	87-010-154-080		CAP CHIP 10P-50
C501	87-016-669-080		C-CAP,S 0.1-25 K B	C706	87-010-176-080		C-CAP,S 680P-50 SL
C502	87-010-182-080		C-CAP,S 2200P-50 B	C707	87-010-194-080		CAP, CHIP 0.047-25
C551	87-010-805-080		CAP, S 1-16	C708	87-010-194-080		CAP, CHIP 0.047-25
C552	87-010-805-080		CAP, S 1-16	C709	87-010-196-080		CHIP CAPACITOR,0.1-25
C553	87-010-805-080		CAP, S 1-16	C710	87-010-194-080		CAP, CHIP 0.047-25
C554	87-010-805-080		CAP, S 1-16	C711	87-010-194-080		CAP, CHIP 0.047-25
C555	87-010-178-080		CHIP CAP 1000P	CON701	8Z-KT1-612-010		CONN,16P CAM-C73
C556	87-010-178-080		CHIP CAP 1000P	D719	87-A40-813-040		C-LED,SEC1E01C BLUE
C557	87-010-178-080		CHIP CAP 1000P	D720	87-A40-813-040		C-LED,SEC1E01C BLUE
C558	87-010-178-080		CHIP CAP 1000P	D721	87-A40-813-040		C-LED,SEC1E01C BLUE
C559	87-010-498-040		CAP,E 10-16 GAS	D725	87-017-827-070		C-LED,SEC 1201C RED
C560	8A-KC7-623-000		CAP,E 2200U-16 BT(125C)	D726	87-017-827-070		C-LED,SEC 1201C RED
C561	87-010-805-080		CAP, S 1-16	D727	87-017-827-070		C-LED,SEC 1201C RED
C563	87-010-497-040		CAP,E 4.7-35 GAS	LCD701	8A-KC8-610-010		LCD,AKC-2/8(2 COLOR)
C901	87-010-198-080		CAP, CHIP 0.022-25	PL701	8Z-KT1-641-010		LAMP,T-3
C902	87-010-198-080		CAP, CHIP 0.022-25	PL702	8Z-KT1-641-010		LAMP,T-3
C903	87-010-194-080		CAP, CHIP 0.047-25	SW701	87-036-251-080		SW,TACT SKQCAE
C904	87-010-198-080		CAP, CHIP 0.022-25	SW702	87-036-251-080		SW,TACT SKQCAE
C905	87-010-498-040		CAP,E 10-16 GAS	SW703	87-A90-001-080		C-SW,TACT SKQMAL
C906	87-010-553-040		CAP,E 47-16 GAS	SW704	87-036-251-080		SW,TACT SKQCAE
C907	87-010-497-040		CAP,E 4.7-35 GAS	SW705	87-036-251-080		SW,TACT SKQCAE
C908	87-010-196-080		CHIP CAPACITOR,0.1-25	SW706	87-036-251-080		SW,TACT SKQCAE
C909	87-010-315-080		C-CAP,S 27P-50 CH	SW707	87-036-251-080		SW,TACT SKQCAE
C910	87-016-039-010		CAP,DL 0.022F-5.5 Z 70	SW708	87-A90-001-080		C-SW,TACT SKQMAL
C911	87-010-315-080		C-CAP,S 27P-50 CH	SW709	87-036-251-080		SW,TACT SKQCAE
C912	87-010-196-080		CHIP CAPACITOR,0.1-25	SW710	87-036-251-080		SW,TACT SKQCAE
C913	87-010-198-080		CAP, CHIP 0.022-25	SW711	87-A90-001-080		C-SW,TACT SKQMAL
C914	87-010-198-080		CAP, CHIP 0.022-25	SW712	87-036-251-080		SW,TACT SKQCAE
C915	87-012-350-080		C-CAP,1-25 F	SW713	87-036-251-080		SW,TACT SKQCAE
C916	87-018-119-080		CAP, TC U100P-50V	SW714	87-036-251-080		SW,TACT SKQCAE
C917	87-018-119-080		CAP, TC U100P-50V	SW715	87-A90-001-080		C-SW,TACT SKQMAL
C919	87-010-498-040		CAP,E 10-16 GAS	SW716	87-A91-597-010		SW,RTRY SIM-026MT
C920	87-010-198-080		CAP, CHIP 0.022-25				
C923	87-010-178-080		CHIP CAP 1000P-50				
C924	87-010-196-080		CHIP CAPACITOR,0.1-25	CONN C.B.			
C927	87-010-805-080		CHIP CAPACITOR,1-16	CON601	8Z-KT1-613-010		CONN,16P CAM-C74
C928	87-015-627-080		C-CAP,1000P-50 B	CON602	87-A60-910-010		C-CONN,16P V TKC-F16X-H2
CNA101	8A-KC8-614-010		CONN ASSY,2P SHLD				
CON201	8Z-KT1-611-010		CONN,16P CAM-B51				
CON901	87-A61-219-010		CONN,20P H 52089-2020	EJECT C.B.			
CON902	87-A60-182-010		CONN,16P TKC-F16P-E3	CNA601	8A-KC8-613-010		CONN ASSY,3P EJECT
D909	87-027-262-010		LEDE,TLR-124 (RED)	D950	87-A40-641-010		LED,SLR-332MG GRN
F281	8Z-KC1-621-010		FUSE,15A 32V	SW950	87-A90-001-080		C-SW,TACT SKQMAL
FC901	88-KC4-641-010		FF-CABLE,20P 1.0 90MM				
J101	8Z-KT1-614-010		ANT,AW-002	AUX C.B.			
J451	87-A61-224-010		JACK,PIN 4P XR-401	FC751	8A-KC7-611-010		F-CABLE,3P (AUX)
J951	8A-KC7-620-010		JACK,DIN 13 P SKDS1302	J751	85-HRL-623-010		JACK,3.5 ST BLK
L101	87-003-143-080		COIL 4.7 UH				
L104	8Z-KT1-619-010		COIL,68MH K7-D				
L201	8Z-KT1-615-010		FLTR,AMORPHOUS -CHOKE	CD MAIN C.B			
L252	87-003-149-080		COIL,47UH	C803	87-A10-711-080		C-CAP,E 100-6.3 M MF
L401	87-003-143-080		COIL 4.7 UH	C804	87-010-178-080		CHIP CAP 1000P
L901	87-003-147-080		COIL, 22UH	C805	87-016-669-080		C-CAP,S 0.1-25 K B
L903	87-003-149-080		COIL,47UH	C806	87-010-184-080		CHIP CAPACITOR 3300P(K)
L904	87-003-102-080		COIL, 10UH	C808	87-016-669-080		C-CAP,S 0.1-25 K B
L905	87-003-102-080		COIL, 10UH	C809	87-010-880-080		C-CAP,E 47-6.3 MF
L906	87-003-102-080		COIL, 10UH	C811	87-016-669-080		C-CAP,S 0.1-25 K B
PL901	8Z-KT1-641-010		LAMP,T-3	C813	87-016-669-080		C-CAP,S 0.1-25 K B
SW901	87-A91-070-010		SW,TACT SKHHLV	C816	87-010-880-080		C-CAP,E 47-6.3 MF
SW903	87-036-109-010		SW MICRO SPPB61	C831	87-012-156-080		C-CAP,S 220P-50 CH
SW904	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A	C832	87-010-194-080		CAP, CHIP 0.047
TU101	8A-KC8-621-010		TU UNIT, FAE347-A12	C833	87-012-156-080		C-CAP,S 220P-50 CH
X901	87-A70-175-010		VIB,XTAL 4.5MHZ AT-49	C834	87-012-156-080		C-CAP,S 220P-50 CH
				C835	87-016-669-080		C-CAP,S 0.1-25 K B
				C836	87-012-156-080		C-CAP,S 220P-50 CH

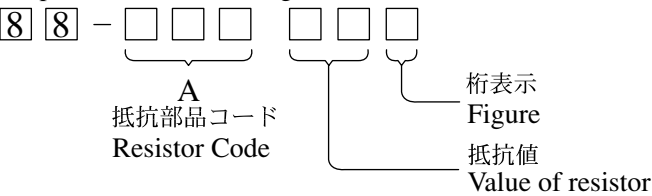
FRONT C.B.

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C837	87-010-186-080		CHIP CAPACITOR 4700P(K)
C838	87-010-194-080		CAP, CHIP 0.047
C839	87-010-880-080		C-CAP,E 47-6.3 MF
C840	87-016-669-080		C-CAP,S 0.1-25 K B
C841	87-016-669-080		C-CAP,S 0.1-25 K B
C842	87-016-526-080		C-CAP,S 0.47-16 BK
C843	87-012-155-080		C-CAP 180P-50CH
C844	87-012-155-080		C-CAP 180P-50CH
C845	87-010-177-080		C-CAP,S 820P-50 SL
C846	87-010-177-080		C-CAP,S 820P-50 SL
C847	87-010-885-080		C-CAP,E 22-10 MF
C848	87-010-885-080		C-CAP,E 22-10 MF
C849	87-010-318-080		C-CAP,S 47P-50 CH
C850	87-010-318-080		C-CAP,S 47P-50 CH
C851	87-A12-034-080		C-CAP,E 2.2-35 M MF
C852	87-A12-034-080		C-CAP,E 2.2-35 M MF
C853	87-010-178-080		CHIP CAP 1000P
C854	87-010-178-080		CHIP CAP 1000P
C855	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C856	87-016-669-080		C-CAP,S 0.1-25 K B
C857	87-010-880-080		C-CAP,E 47-6.3 MF
C861	87-016-669-080		C-CAP,S 0.1-25 K B
C862	87-016-669-080		C-CAP,S 0.1-25 K B
C863	87-010-880-080		C-CAP,E 47-6.3 MF
C881	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C882	87-016-669-080		C-CAP,S 0.1-25 K B
C883	87-016-669-080		C-CAP,S 0.1-25 K B
C884	87-010-178-080		CHIP CAP 1000P
C885	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C886	87-016-669-080		C-CAP,S 0.1-25 K B

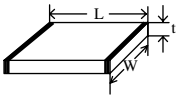
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

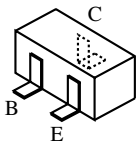
Chip Resistor Part Coding



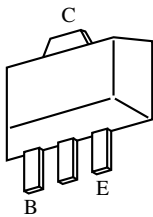
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

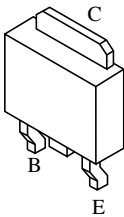
TRANSISTOR ILLUSTRATION



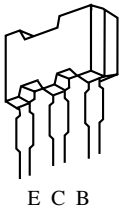
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2SC2412 DTB113ZK
DTC114EK DTC124EKA
DTC114TKA DTC144EK
DTC314TK



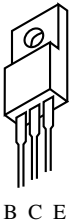
2SB1132



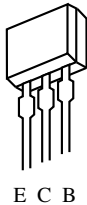
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2SB1237



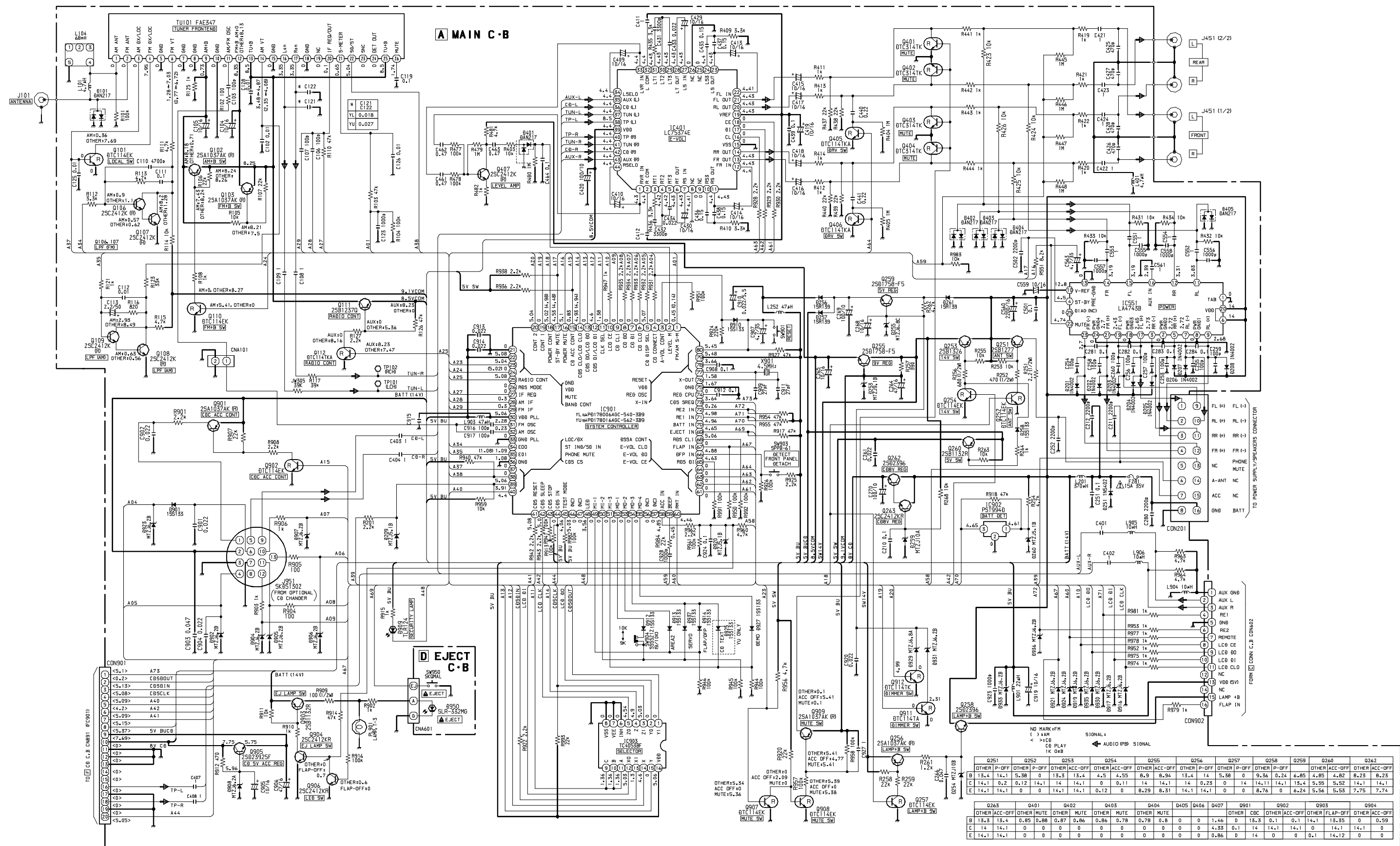
2SD2395
2SD2396



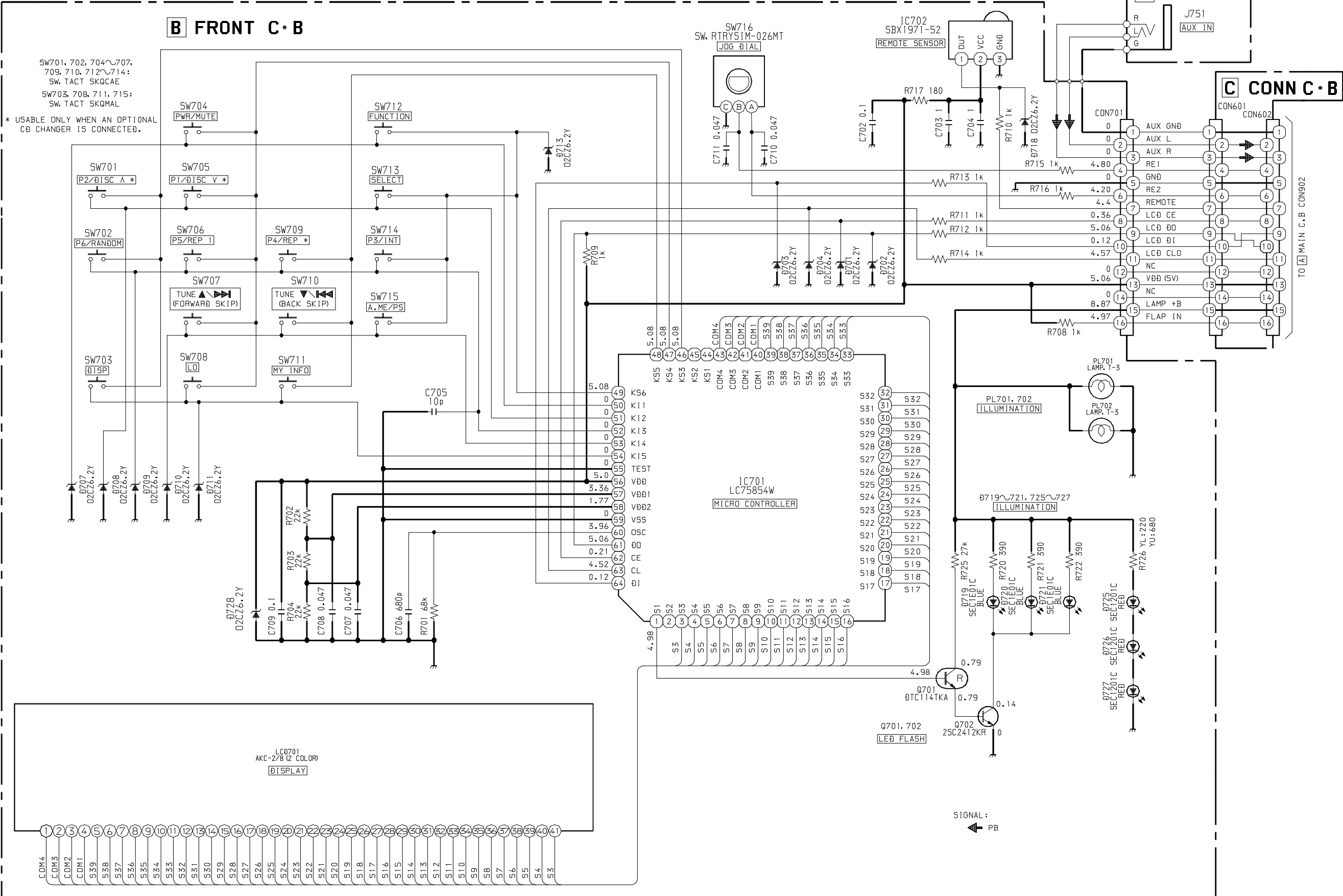
2SB1277
2SB1326

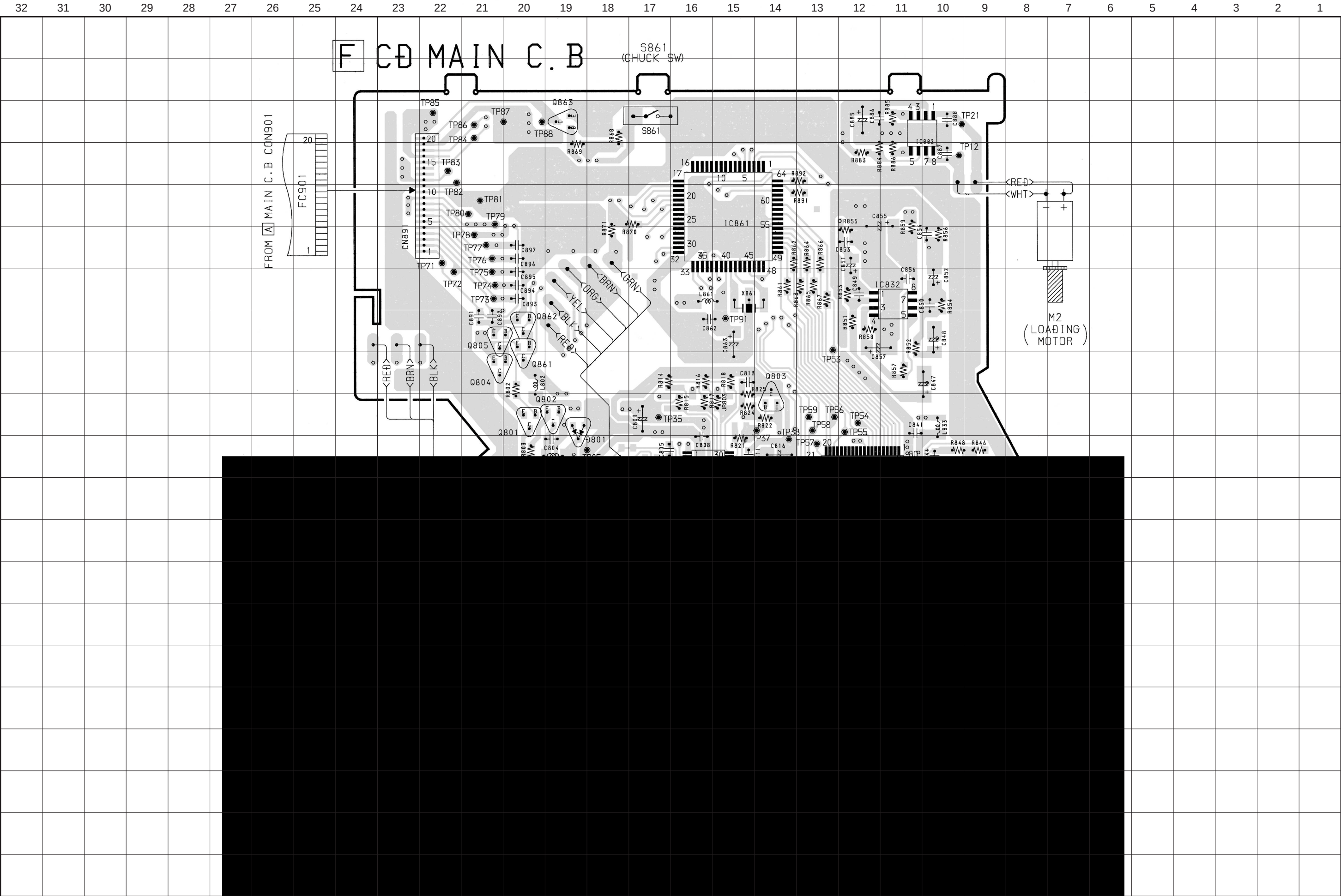


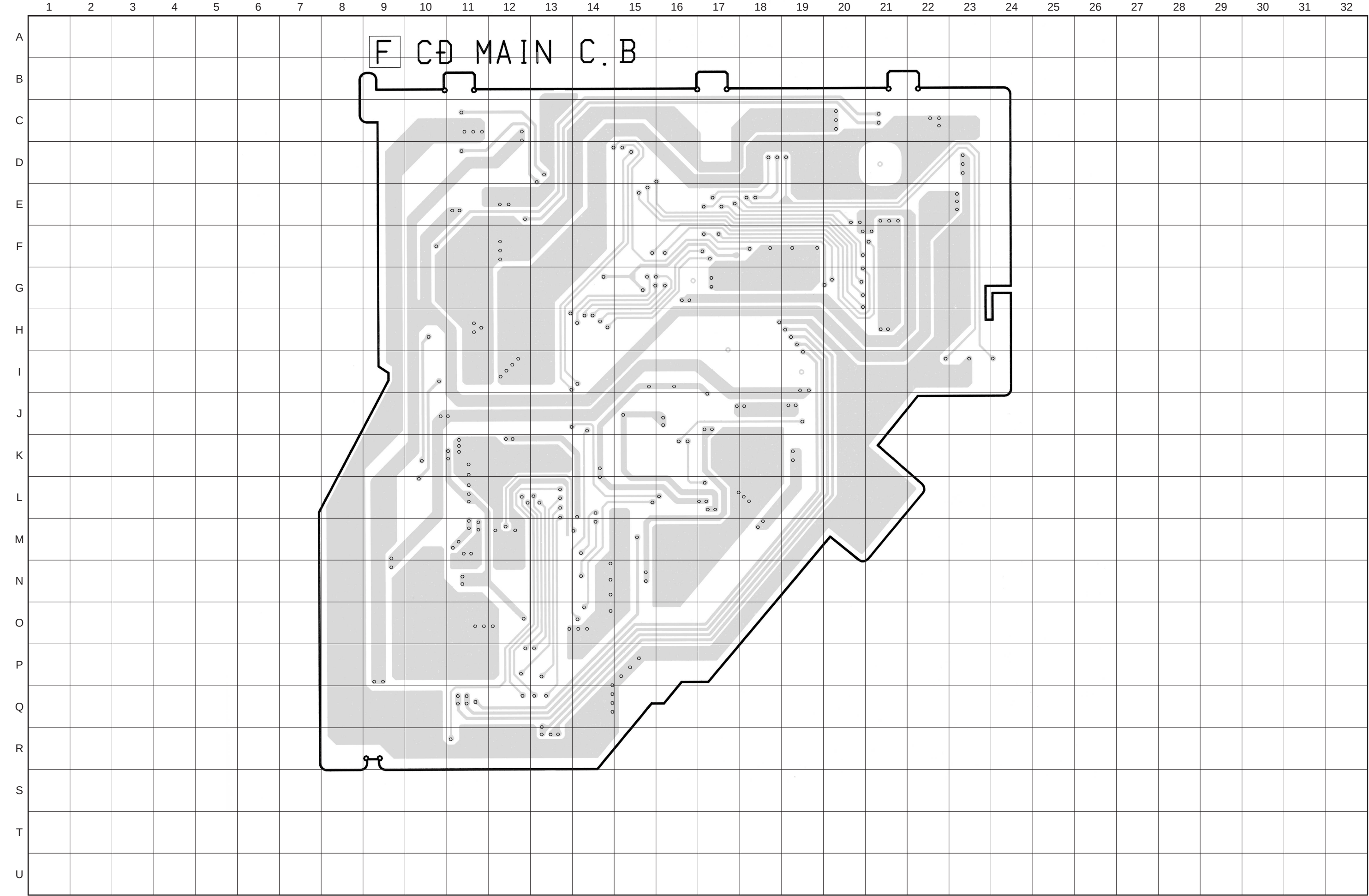
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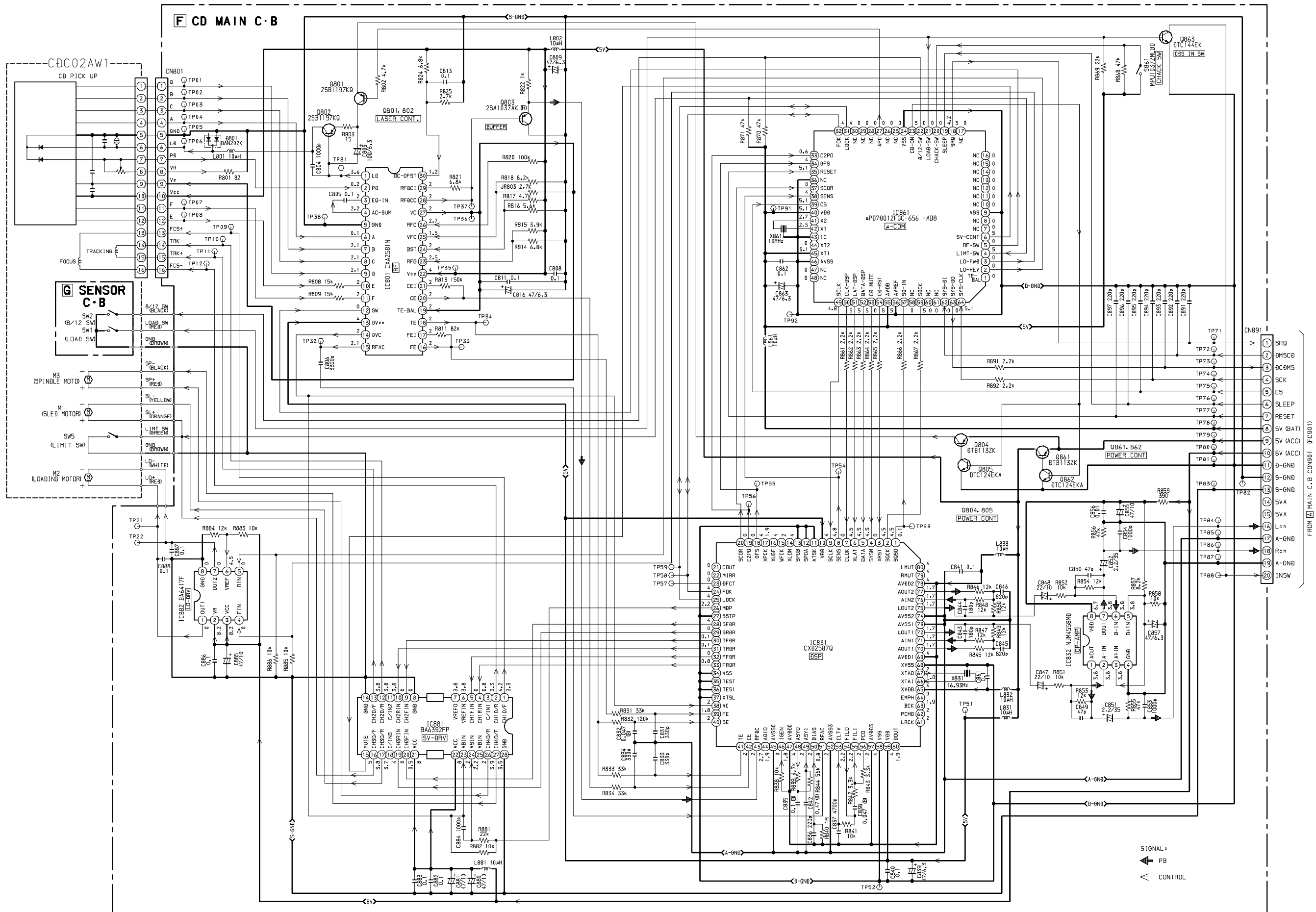


SCHEMATIC DIAGRAM – 2 (FRONT / CONN / AUX)



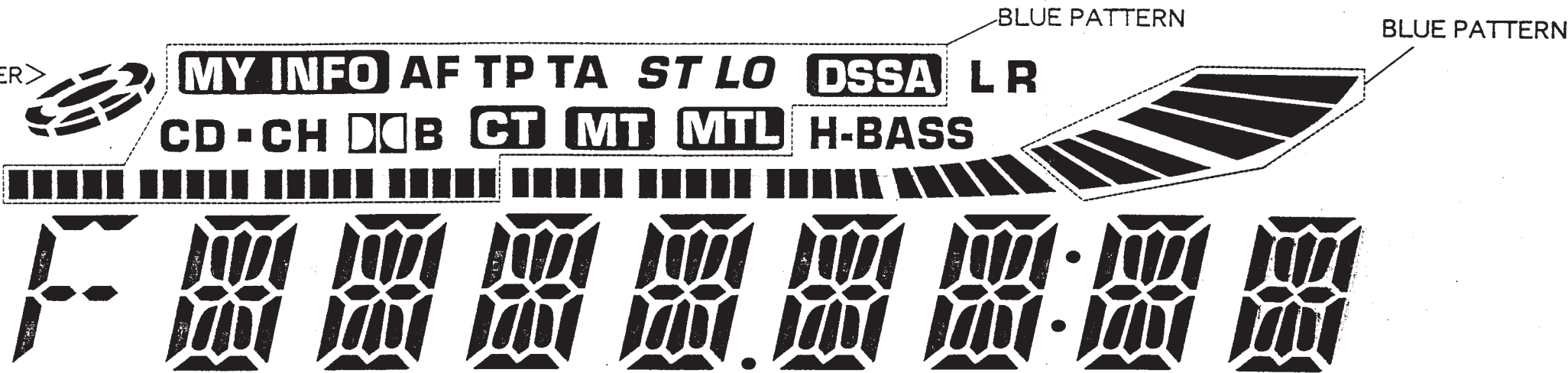




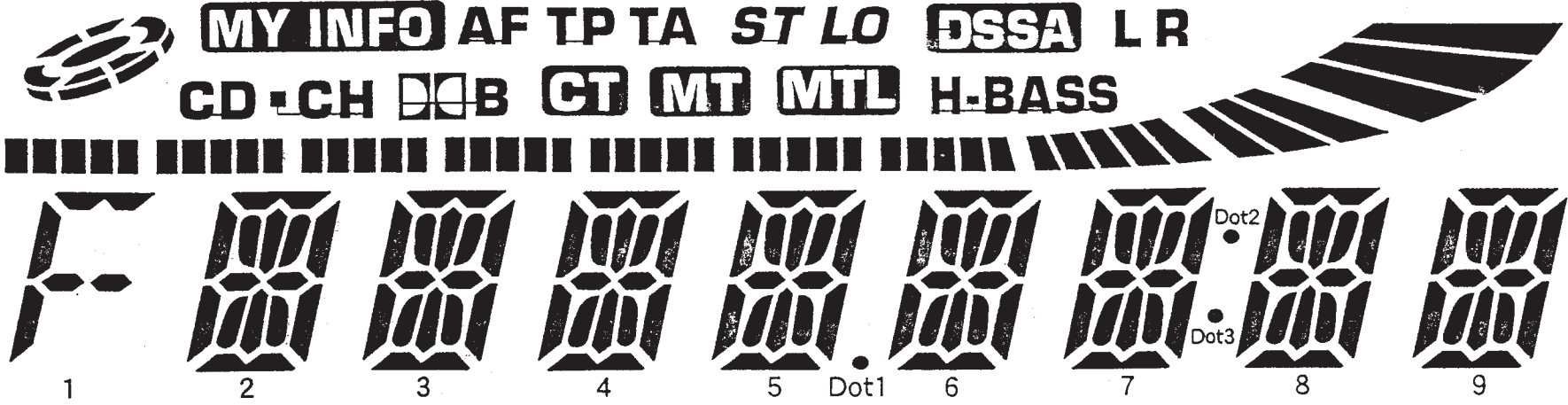
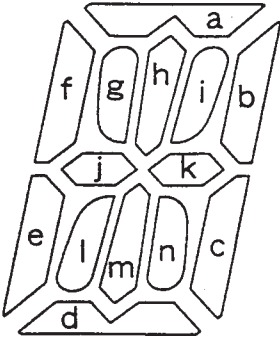
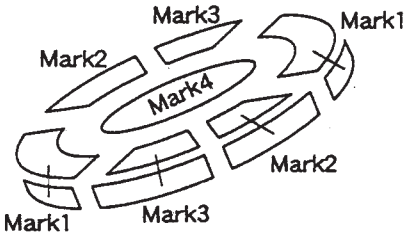




<COLOR CLASSIFICATION
OF THE COLOR FILTER>



<CHARACTER NAME>



IC DESCRIPTION

IC, μ PD178016AGC-562-3B9/ μ PD178006AGC-540-3B9

Pin No.	Pin Name	I/O	Description
1	FM/AM S-M	I	RDS AF signal input and FM/AM S meter signal input.
2	LEVEL-M	I	Voltage input for level indicator. Pulled down when not used.
3	A-VOL CONT	I	Detects microphone input for auto volume operation. Pulled down when not used.
4	CD CONNECT	I	CD changer connection check. Pulled down when not used.
5	CD DISP SEL	O	Output communication timing signal output to CD changer. (Hi=TX, Low=RX).
6	CD CLO	O	Synchronous clock signal output to CD changer.
7	CD DI	I	Data input from CD changer. Pulled down when not used.
8	CD DO	O	Data output to CD changer.
9	CD CLI	I	Synchronous clock signal input from CD changer. Pull down when not used.
10	LCD CE	O	LCD DRV (LC75854W) CE output.
11	CLK SEL	O	Clock selection for CDS and LCD DRV (LC75854W). (Hi=CDS, Low=LCD).
12	CDS DI/LCD DI	I	CDS and LCD DRV (LC75854W) data input.
13	CDS DO/LCD DO	O	CDS and LCD DRV (LC75854W) data output.
14	CDS CLO/LCD CLO	O	CDS and LCD DRV (LC75854W) synchronous clock output.
15	CD ACC CONT	O	CD changer ACC signal output.
16	POWER MUTE	O	Muting output to power amp.
17	ST-BY MUTE	O	Standby/muting output to power amp.
18	POWER CONT	O	Unit power control output.
19	CONT 1	O	LCD contrast control 1.
20	CONT 2	O	LCD contrast control 2.
21	GND	–	Ground for port.
22	VDD	–	Power supply for port.
23	MUTE	O	Audio muting output.
24	BAND CONT	O	AM/FM power switching output. (Hi =AM, Low=FM).
25	RADIO CONT	O	Radio power switching output. (Low=radio mode).
26	RDS MODE	O	Hi output during RDS AF operation.
27	IF REQ	O	Output to request IF count signal.
28	AM IF	I	AM IF count signal input.
29	FM IF	I	FM IF count signal input.
30	VDD PLL	–	Power supply for PLL.
31	FM OSC	I	FM local oscillation input.
32	AM OSC	I	AM local oscillation input.
33	GND PLL	–	Ground for PLL.
34	EO 0	O	Error output from charge pump.
35	EO 1	O	Error output from charge pump.
36	GND	–	Ground.
37	LOC/DX	O	LOC/DX switching output during radio seek.(Hi=LOC, Low=DX).
38	ST IND/SD IN	I	Stereo signal input during FM reception. (Hi=MONO, Low=ST) /Broadcast detection signal input during FM/AM seek. (Hi=detect broadcast).
39	PHONE MUTE	I	Mute control from external. Low=20dB MUTE. Pull up when not used.
40	CDS CS	O	CS signal output.

Pin No.	Pin Name	I/O	Description
41	CDS RESET	O	Reset signal output.
42	CDS SLEEP	O	SLEEP signal output.
43	CDS STOP	I	STOP signal input.
44	CDS IN	I	DISC status detection input.
45	TEST MODE	I	CD test port.
46	NC	–	Not connected (open).
47	NC	–	Not connected (open).
48	LED	O	Security LED flashing output. (Hi=120~130ms, 1cycle=3sec).
49	MI-1	I	Diode matrix input for initial setting.
50	MI-2		
51	MI-3		
52	MO-1	O	Diode matrix output for initial setting.
53	MO-2		
54	MO-3		
55	MO-4		
56	NC	–	Not connected (open).
57	NC	–	Not connected (open).
58	ACC IN	I	ACC (power supply for accessories) ON/OFF input .
59	BEEP	O	Beep output (3 kHz, 50 ms).
60	RMT IN	I	Remote controller input. Pulled up when not used.
61	E-VOL CE	O	CE output to electronic VR (LC75374E).
62	E-VOL DO	O	Data output to electronic VR (LC75374E).
63	E-VOL CLO	O	Clock output to electronic VR (LC75374E).
64	DSSA CONT	O	Output Hi during DSSA L/R operation.
65	RDS DI	I	RDS data input. Pulled down when not used.
66	DFP IN	I	Detect front panel existance.
67	FLAP IN	I	Detect whether flap DFP is open or closed. DFP IN = enable when Hi.
68	RDS CLI	I	RDS clock input. Pulled down when not used.
69	EJECT IN	I	Eject detection input. FLAP IN = enable when Low. Pulled up when not used.
70	BATT IN	I	Battery ON/OFF input.
71	RE1 IN	I	Rotary encoder input 1.
72	RE2 IN	I	Rotary encoder input 2.
73	CDS SREQ	I	CDS S-REQ signal input.
74	REG CPU	I	CPU power regulator.
75	GND	–	Ground.
76	X-OUT	–	System clock oscillator.
77	X-IN	–	System clock oscillator.
78	REG OSC	–	Regulator for oscillator circuit.
79	VDD	–	Power supply.
80	RESET	–	System reset input.

IC, LC75854W

Pin No.	Pin Name	I/O	Description
1 ~ 39	S1~S39	O	LCD segments output.
40	COM1	O	LCD common driver outputs.
41	COM2	O	LCD common driver outputs.
42	COM3	O	LCD common driver outputs.
43	COM4	O	LCD common driver outputs.
44	KS1	–	Not used.
45	KS2	–	Not used.
46 ~ 49	KS3 ~ KS6	O	Key scan outputs.
50 ~ 54	KI1 ~ KI5	I	Key scan inputs.
55	TEST	–	Test pin (Connected to GND).
56	VDD	–	5V.
57, 58	VDD1, VDD2	–	VDD.
59	VSS	–	GND.
60	OSC	I	Oscillator.
61	DO	O	Communication; data output.
62	CE	I	Communication; chip enable.
63	CL	I/O	Communication; sync clock.
64	DI	I	Communication; data transferred.

IC, CXD2587Q

Pin No.	Pin Name	I/O	Description
1	SQSO	O	Sub-Q 80-bit and PCM peak/level data output. CD TEXT data output.
2	SQCK	I	Clock input for reading SQSO.
3	XRST	I	System reset. Reset at "L".
4	SYSM	I	Muting input. Muted at "H".
5	DATA	I	Serial data input from CPU.
6	XLAT	I	Latch input from CPU. Latches serial data at the trailing edge.
7	CLOK	I	Clock input for serial data transfer from CPU.
8	SENS	O	SENS output to CPU.
9	SCLK	I	Clock input for reading SENS serial data.
10	VDD	—	Power supply of digital circuits.
11	ATSK	I/O	Input/output for anti-shock.
12	SPOA	I	Microprocessor extended interface (input A).
13	SPOB	I	Microprocessor extended interface (input B).
14	XLON	O	Microprocessor extended interface (output).
15	WFCK	O	WFCK output.
16	XUGF	O	WUGF output. MNT1 or RFCK is output when switched by command.
17	XPCK	O	XPCK output. MNT0 is output when switched by command.
18	GFS	O	GFS output. MNT3 or XROF is output when switched by command.
19	C2PO	O	C2PO output. GTOP is output when switched by command.
20	SCOR	O	Outputs "H" when Sub-code sync S0 or S1 is detected.
21	COUT	I/O	Track number count signal input/output.
22	MIRR	I/O	Mirror signal input/output.
23	DFCT	I/O	Defect signal input/output.
24	FOK	I/O	Focus OK signal input/output.
25	LOCK	I/O	Outputs "H" when GFS sampled by 460 Hz is "H"; "L" when GFS is "L" continuously for 8 samplings. Or, a signal is input when LKIN is "1".
26	MDP	O	Spindle motor servo control output.
27	SSTP	I	Disc innermost edge detection signal input.
28	SFDR	O	Sled drive output.
29	SRDR	O	Sled drive output.
30	TFDR	O	Tracking drive output.
31	TRDR	O	Tracking drive output.
32	FFDR	O	Focus drive output.
33	FRDR	O	Focus drive output.
34	VSS	—	Ground of digital circuits.
35	TEST	I	TEST pin. Normally, grounded.
36	TES1	I	TEST pin. Normally, grounded.
37	XTSL	I	Crystal select input. "L" when 16.9344MHz crystal is used; "H" when 33.8688MHz crystal is used.
38	VC	I	Neutral voltage input.
39	FE	I	Focus error signal input.

Pin No.	Pin Name	I/O	Description
40	SE	I	Sled error signal input.
41	TE	I	Tracking error signal input.
42	CE	I	Neutral servo analog input.
43	RFDC	I	RF signal input.
44	ADIO	O	For test. Do not connect.
45	AVSS0	—	Ground of analog circuits.
46	IGEN	I	Constant current input for OP amp.
47	AVDD0	—	Power supply of analog circuits.
48	ASYO	O	EFM full-swing output ("L": Vss; "H": VDD).
49	ASYI	I	Asymmetry comparator voltage input.
50	BIAS	I	Asymmetry circuit constant current input.
51	RFAC	I	EFM signal input.
52	AVSS3	—	Ground of analog circuits.
53	CLTV	I	VCO1 control voltage input for multiplication.
54	FILO	O	Filter output for master PLL (Slave: Digital PLL).
55	FILI	I	Filter input for master PLL.
56	PCO	O	Charge pump output for master PLL.
57	AVDD3	—	Power supply of analog circuits.
58	VSS	—	Ground of digital circuits.
59	VDD	—	Power supply of digital circuits.
60	DOUT	O	Digital output.
61	LRCK	O	D/A interface LR clock output $f = F_s$.
62	PCMD	O	D/A interface serial data output (2's COMP, MSB first).
63	BCK	O	D/A interface bit clock output.
64	EMPH	O	Outputs "H" when disc to be played is applied with emphasis; "L" when disc is not applied with emphasis.
65	XVDD	—	Power supply of master clock.
66	XTAI	I	Crystal oscillator input. External master clock is input to this pin.
67	XTAO	O	Crystal oscillator output.
68	XVSS	—	Ground of master clock.
69	AVDD1	—	Power supply of analog circuits.
70	AOUT1	O	Lch analog output.
71	AIN1	I	Lch OP amp input.
72	LOUT1	O	Lch LINE output.
73	AVSS1	—	Ground of analog circuits.
74	AVSS2	—	Ground of analog circuits.
75	LOUT2	O	Rch LINE output.
76	AIN2	I	Rch OP amp input.
77	AOUT2	O	Rch analog output.
78	AVDD2	—	Power supply of analog circuits.
79	RMUT	O	Rch "0" detection flag.
80	LMUT	O	Lch "0" detection flag.

IC, CXA2581N

Pin No.	Pin Name	I/O	Description
1	LD	O	APC amp output.
2	PD	I	APC amp input.
3	EQ-IN	I	RFAC-system VCA/EQ block input.
4	AC-SUM	O	RFAC-system RF SUM output.
5	GND	—	Ground.
6	A	I	A-signal input.
7	B	I	B-signal input.
8	C	I	C-signal input.
9	D	I	D-signal input.
10	E	I	E-signal input.
11	F	I	F-signal input.
12	SW	I	MODE switching signal input.
13	DVCC	O	DVcc.
14	DVC	O	DVC output.
15	RFAC	O	RFAC signal output.
16	FE	O	Focus error signal output.
17	FEI	I	FE amp virtual ground.
18	TE	O	Tracking error signal output.
19	TE-BAL	I	TE balance adjustment.
20	CE	O	Center error signal output.
21	CEI	I	CE amp virtual ground.
22	VCC	I	Vcc.
23	RFG	I	RFAC-system VCA block low-frequency gain adjustment.
24	BST	I	EQ boost level adjustment.
25	VFC	I	EQ cutoff frequency adjustment.
26	RFC	I	EQ cutoff frequency adjustment.
27	VC	O	VC voltage output.
28	RFDCO	O	RFDC signal output.
29	RFDCI	I	RFDC amp virtual ground.
30	DC-OFST	I	RFDC signal output offset adjustment.

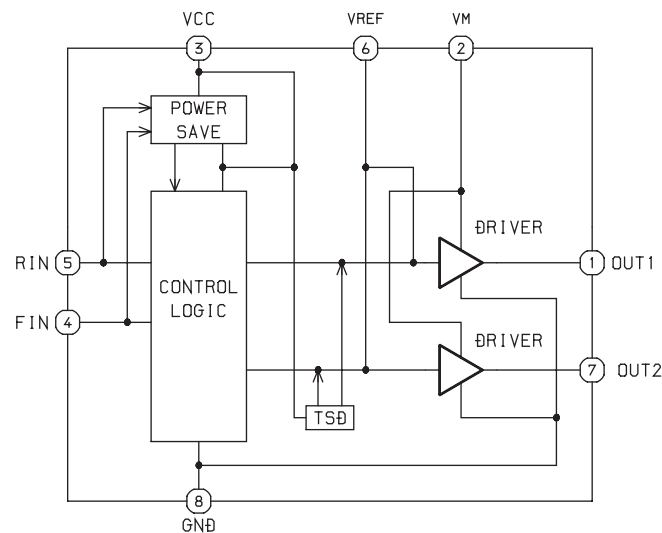
IC, μ PD78012FGC656-AB8

Pin No.	Pin Name	I/O	Description
1	TE-BAL	—	Not connected.
2	LO-REV	O	Loading motor reverse drive output.
3	LO-FWD	O	Loading motor forward drive output.
4	LIMT-SW	I	Inner edge limit switch.
5	RF-SW	O	CD/CD-RW switching output.
6	SV-CONT	O	Outputs "H" when power is turned on. (When power is supplied, this pin outputs "H" after DSP is initialized.)
7, 8	NC	—	Not connected.
9	VSS	—	Ground.
10 ~ 17	NC	—	Not connected.
18	SRQ	O	Mechanism microprocessor communication request.
19	SLEEP	I	SLEED request from system microprocessor.
20	CHACK-SW	I	Chucking complete switch.
21	LOAD-SW	I	Disc loading switch.
22	8/12-SW	I	8/12-cm check switch.
23	CD-ON	O	CD mechanism power control output.
24	VSS	—	Ground.
25, 26	NC	—	Not connected.
27	APC	O	Laser on/off switching output.
28 ~ 30	NC	—	Not connected.
31	LOCK	I/O	Outputs "H" when GFS sampled by 460 Hz is "H"; "L" when GFS is "L" continuously for 8 samplings. Or, a signal is input when LKIN is "1".
32	FOK	I/O	Focus OK signal input/output.
33	C2PO	I	C2PO input.
34	GFS	I	GFS input.
35	RESET	I	System reset input.
36	NC	—	Not connected.
37	SCOR	I	Sub-code sync input.
38	SENS	I	SENS input.
39	CS	I	CS signal input.
40	VDD	—	Power supply.
41	X2	—	For generating main system clock .
42	X1	I	For generating main system clock .
43	IC	—	Ground.
44	XT2	—	Not connected.
45	XT1	—	Not connected.
46	AVSS	—	Ground.
47, 48	NC	—	Not connected.
49	SCLK	O	Outputs clock for reading SENS serial data.
50	CLK-DSP	O	Outputs clock for transferring DSP serial data.
51	LAT-DSP	O	DSP serial data latch output.

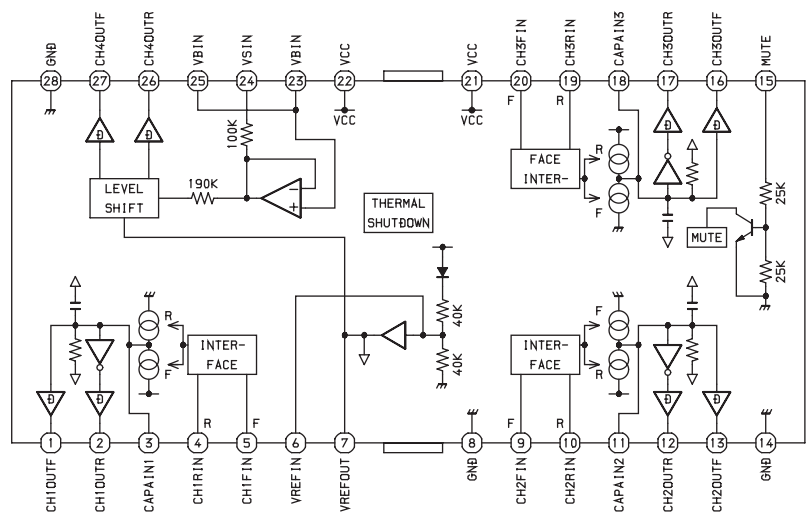
Pin No.	Pin Name	I/O	Description
52	DATA-DSP	O	DSP serial data output.
53	CD-MUTE	O	Muting output.
54	CD-RST	O	CD reset output.
55	AVDD	—	Power supply.
56	AVREF	—	A/D converter reference voltage input.
57	SQ-IN	I	Sub-Q/PCM peak/level data input.
58	NC	—	Not connected.
59	SQCK	O	Outputs clock for reading SQSO.
60, 61	NC	—	Not connected.
62	SYS-DI	I	System microprocessor serial data input.
63	SYS-DO	O	System microprocessor serial data output.
64	SYS-CLK	I	System microprocessor serial sync clock input.

IC BLOCK DIAGRAM

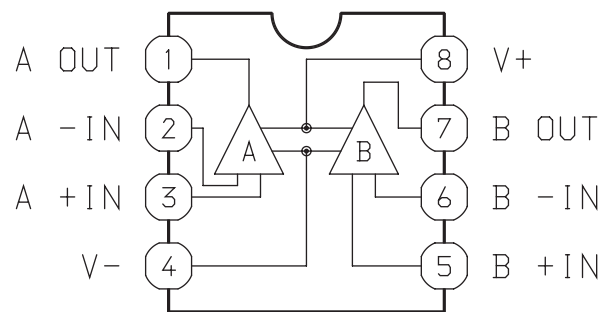
IC, BA6417F



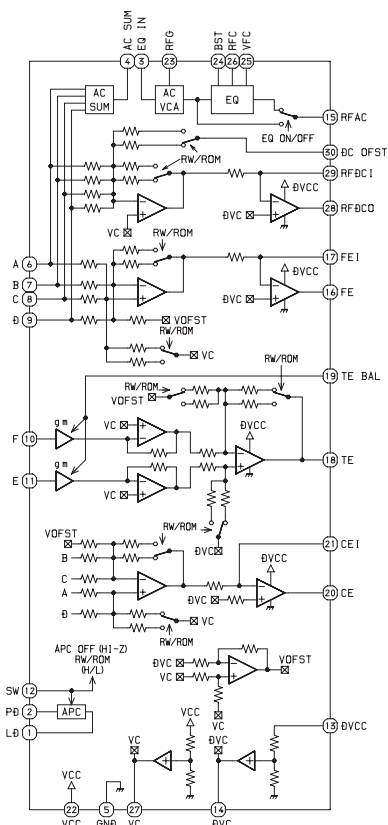
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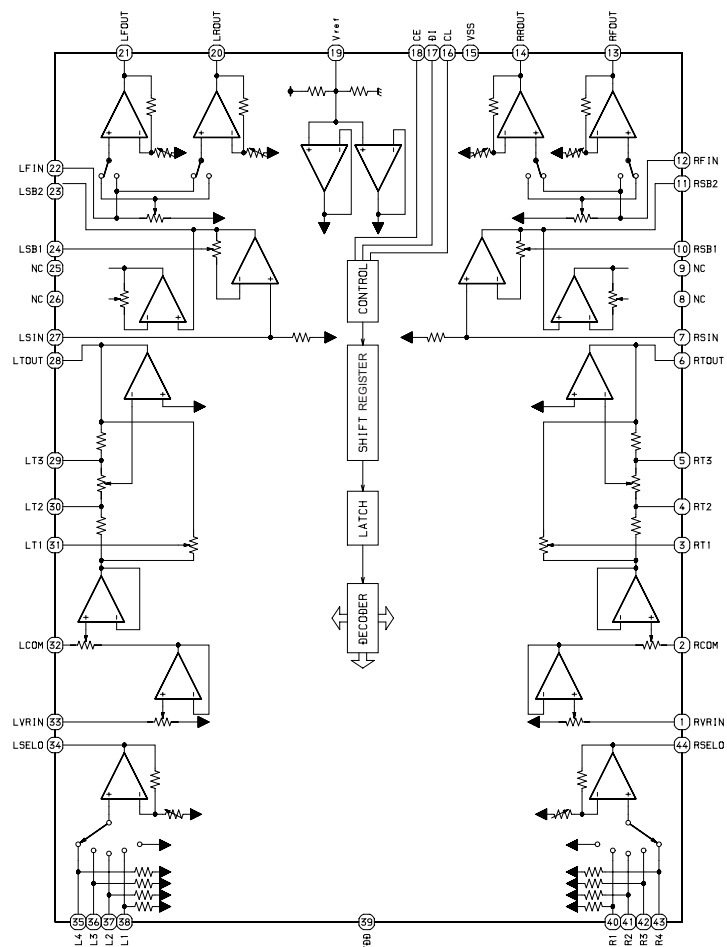
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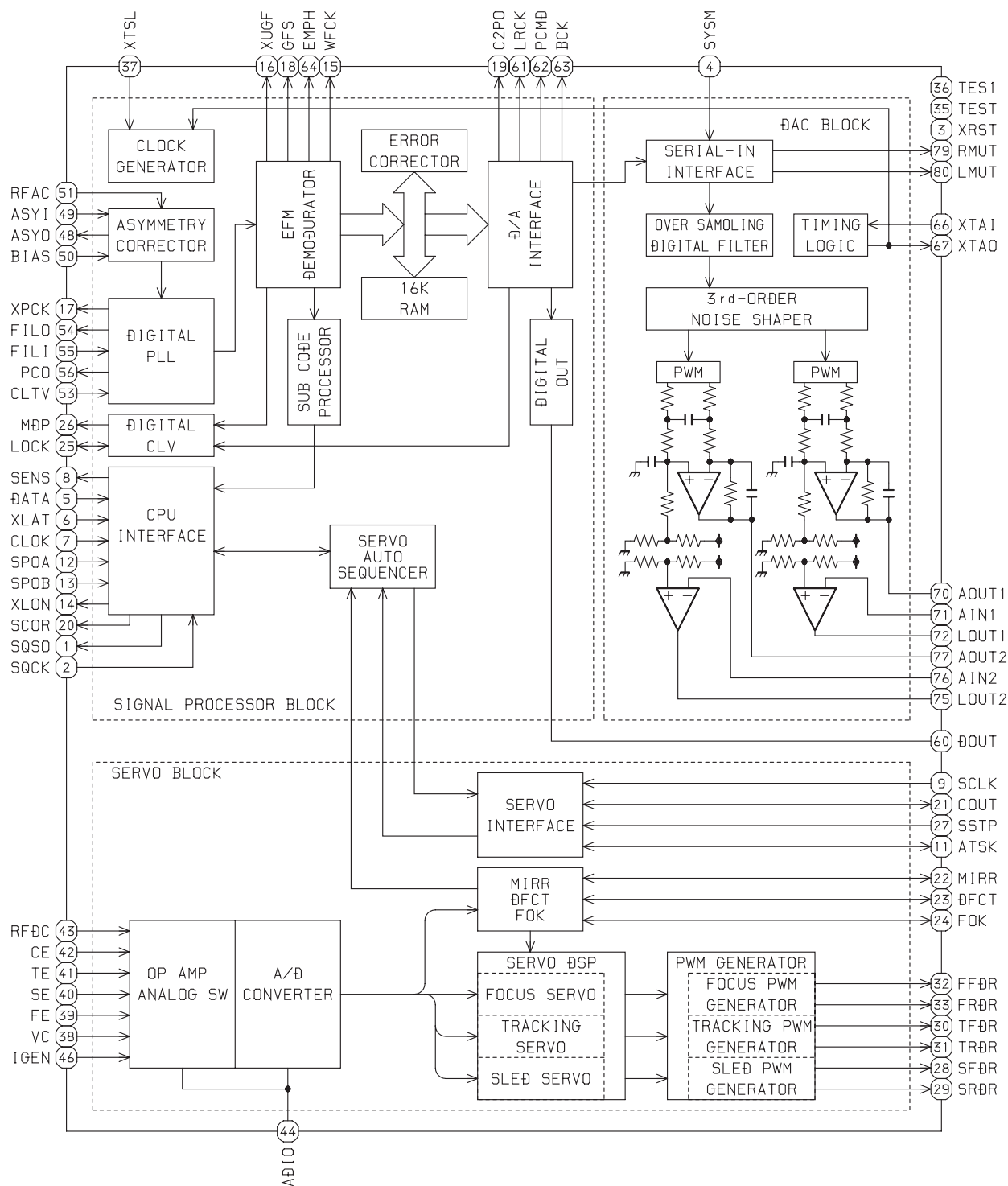


IC, CXA2581N

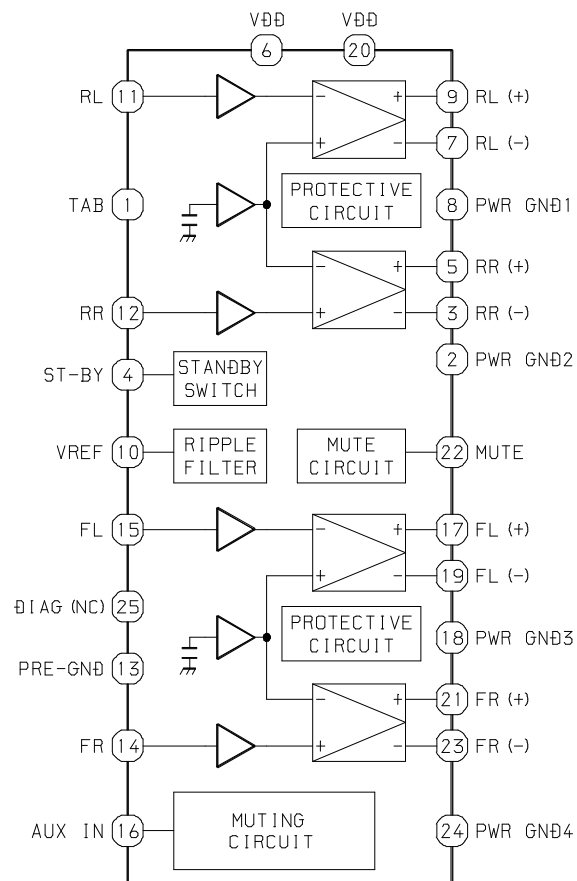


IC, LC75374E

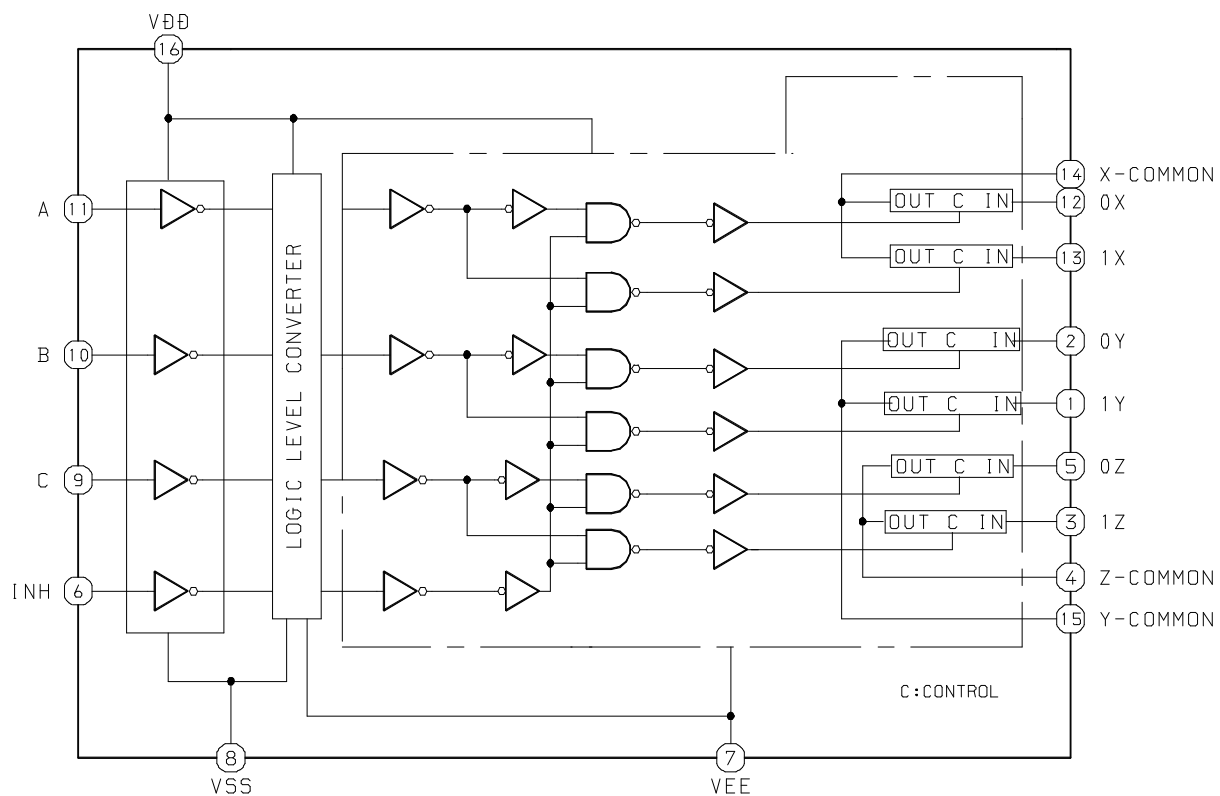




IC, LA4743B



IC, TC4053BF



TEST MODE

1. How to activate CD test mode

- 1) Remove D937 (1SS133) from the main circuit board, and connect the terminal No.45 of a microcomputer and GND line with a wire. (Fig. 1)
- 2) Connect +12V to ACC/BACK UP and – (minus) to the ground of CONNECTOR ASSY.
- 3) Turn on the power.
Test mode will be activated and turn on all LCD lights (5 seconds later, only the display will change to Demo Mode.) (Fig. 2)

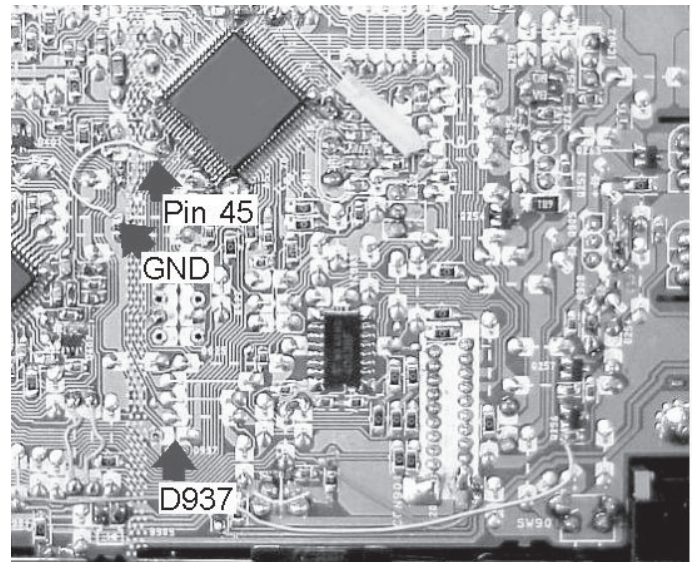


Fig. 1



Fig. 2

2. How to cancel CD test mode

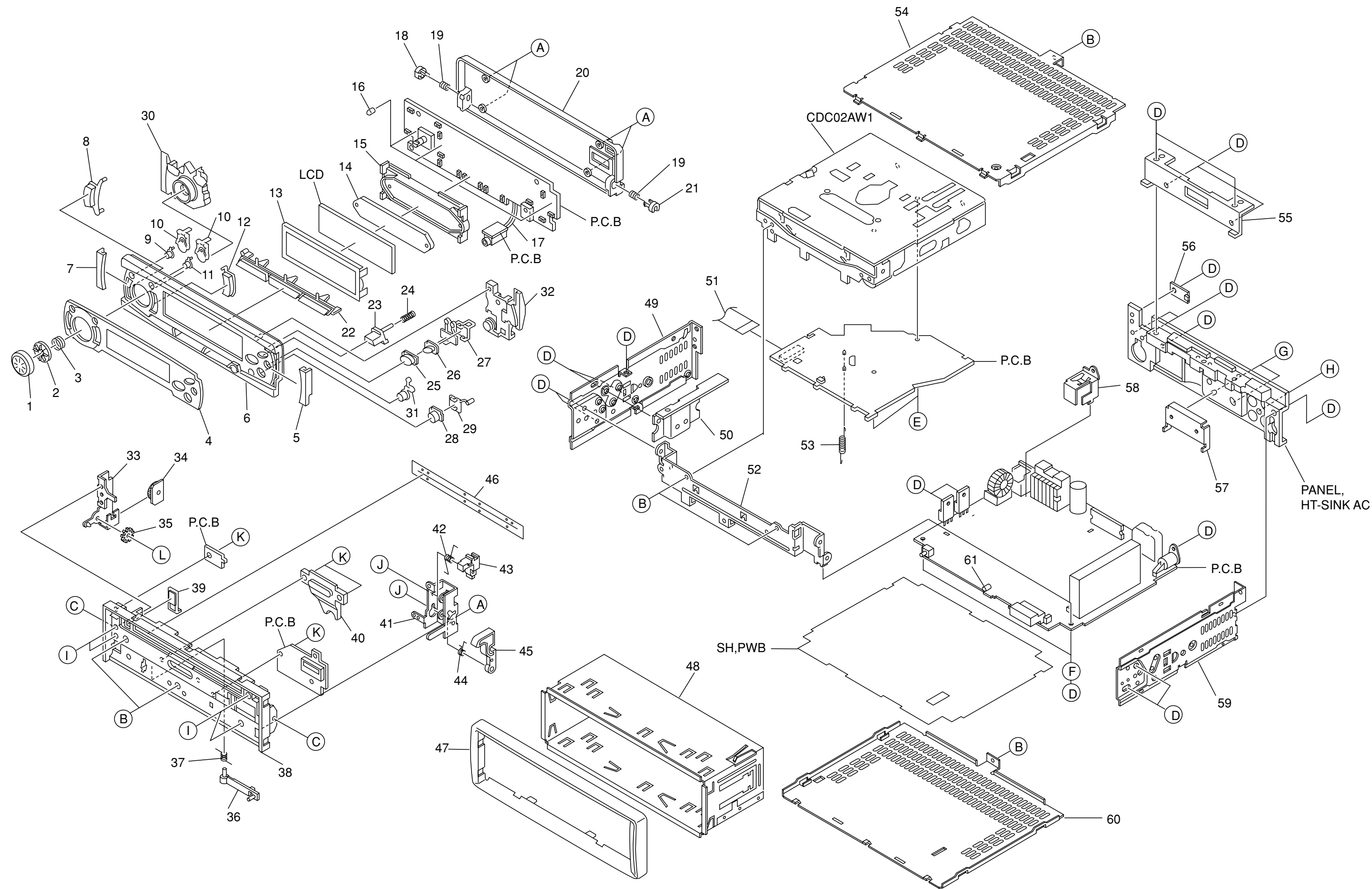
- 1) Turn off the power supply to ACC/BACK UP.
- 2) Remove the connection wire between the terminal No.45 of the main circuit board and the GND line, and solder back D937 (1SS133).
- 3) Disconnect +12V from ACC/BACK UP and – (minus) from the ground of CONNECTOR ASSY.

3. CD test mode functions

Mode	Operation Key	LCD Display	Operation	Contents
Start Mode		All LCD light up		Activate test mode
Load / Unload		All LCD light up	Chucking	• All servo off • Laser on • VCC on
Search Mode	RANDOM		• Continual focus search (The pickup lens repeat the full-swing) *NOTE 1	• Check APC circuit • Laser current measurement • Check focus error waveform
Play Mode	REPEAT 1	• TOC reading • Display Track No. and Play time • Display Level/Ing.	• Normal playback • Same operation as search mode if TOC cannot be read	• Focus servo • Tracking servo • CLV servo • SLED servo
Traverse Mode	INT	• Display Track No. and Play time	Playback pause status	Tracking servo off
Stop Mode	REPEAT	All LCD light up	Wait status	• All servo off • Laser on/off
Sled Mode		All LCD light up	 • Pickup moves to outer track • Pickup moves to inner track	• Sled servo • Check mechanism operation

- Do not insert the CD disc when checking the search mode.
- Press the REPEAT key to release each mode.

* NOTE 1 : There is a case that the CD cannot be operated owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes.
In this case, the power supply should be switched off for 10 minutes until the heat has been reduced and then re-start.



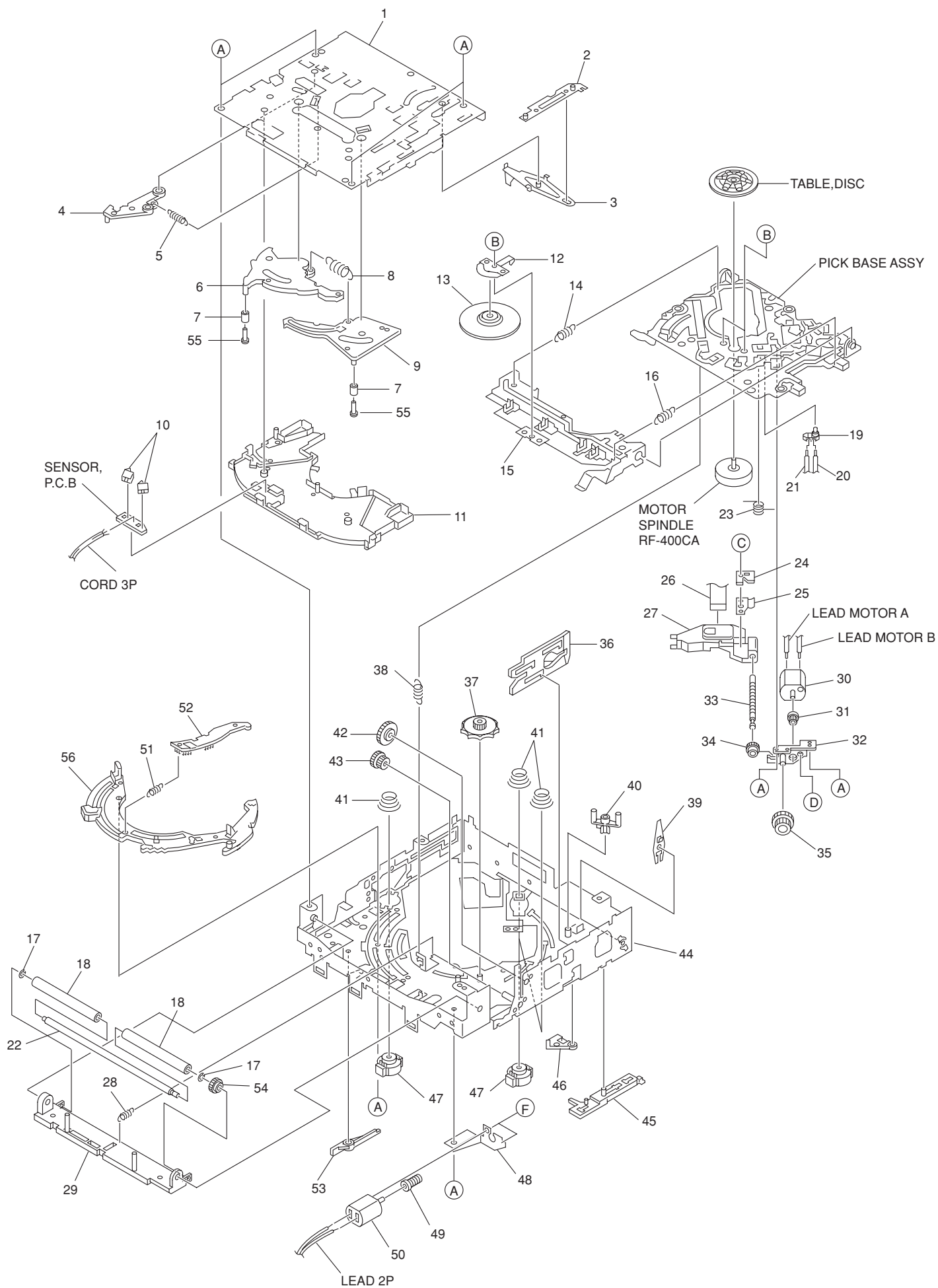
MECHANICAL PART LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KC7-005-010		KNOB,RTRY -AC<7070M YLSTF>	38	8Z-KC1-021-210		CABI,BASE F -C1
1	8A-KC7-010-010		KNOB,RTRY RUBBER -AC<707M YUSTF>	39	8Z-KC1-018-010		BTN,EJ F -C
2	8A-KC7-020-010		RING,RTRY -AC	40	8Z-KC1-208-010		LENS,BASE -C
3	8A-KC7-220-010		SPR-C,ROTARY -AC	41	8Z-KC1-230-010		HLDR,DFP ASS'Y F-C
4	8A-KC8-002-010		WINDOW,LCD X7070M<7070M YLSTF>	42	8Z-KC1-260-010		SPR-T,F.LOCK-C
4	8A-KC8-001-010		WINDOW,LCD X707M<707M YUSTF>	43	8Z-KC1-201-310		ARM,F-LOCK -C1
5	8A-KC7-022-010		WINDOW,R-AC7	44	8Z-KC1-243-010		SPR-T,FLAP-C
6	8A-KC7-001-010		CABI,FRONT-AC7	45	8Z-KC1-202-010		LEVER,F-OPEN -C1
7	8A-KC7-021-010		WINDOW,L-AC7	46	8A-KC7-252-010		COVER, DUST-AC7
8	8A-KC7-004-010		BTN,FUNC-AC7	47	8A-KC7-023-010		CABI,TRIM-AC7
9	8A-KC7-014-010		BTN,CLEAR S -AC	48	8Z-KC1-231-110		HLDR,HALF-C
10	8A-KC7-259-010		HLDR,BTN PWR FUNC<7070M YLSTF>	49	8Z-KC1-213-010		CHAS,SIDE L -C
10	8A-KC7-208-010		HLDR,BTN L-AC<707M YUSTF>	50	8A-KC7-230-010		HLDR,TR2 -AC
11	8A-KC7-015-010		BTN,SEL -AC	51	88-KC4-641-010		FF-CABLE, 20P 1.0 90MM
12	8A-KC7-007-010		BTN,SEESAW R -AC	52	8Z-KC1-210-210		CHAS,FRONT F -C1
13	8A-KC7-204-010		HLDR,LCD-AC7	53	8A-KC7-255-010		SPR-C,WIRE
14	8A-KC7-202-010		LENS,LCD-AC7	54	8Z-KC1-211-010		COVER, TOP -C
15	8A-KC7-201-010		CASE,LCD LENS- AC7	55	8Z-KC1-216-210		HLDR,DECK CDC-01
16	8Z-KT1-236-010		CAP,LAMP BLU	56	8Z-KC7-201-010		COVER, ISO BLIND -C
17	8A-KC7-611-010		F-CABLE,3P (AUX)	57	8A-KC7-224-010		HLDR,P-IC -AC
18	8Z-KC1-204-110		HLDR,F-HOOK L -C	58	8A-KC7-225-010		HLDR,CD-AC
19	8Z-KC1-241-010		SPR-C,DFP HOOK F -C	59	8Z-KC1-214-010		CHAS,SIDE R -C
20	8A-KC7-002-010		CABI,REAR-AC7	60	8Z-KC1-212-010		COVER, BOTTOM -C
21	8A-KC7-207-010		HLDR,HOOK R-AC7	61	8Z-KT1-237-010		CAP,LAMP GRN
22	8A-KC7-006-010		BTN,PRE. -AC	A	8Z-KC1-253-010		S-SCREW,PT 2*8 BH+ BLK
23	8A-KC7-008-010		BTN,EJECT-AC7	B	87-B10-216-010		U+2.6-4.0 ZINC BLK (BH M2.6)
24	8Z-KC1-242-010		SPR-C,OPEN BTN F -C	C	8Z-KC1-251-010		S-SCREW,TH2.6-4.0-0.8
25	8A-KC7-011-010		BTN,CLEAR L -AC	D	87-251-073-410		SCREW,U+2.6-6
26	8A-KC7-012-010		BTN,CLEAR MH -AC	E	88-ZG5-317-010		S-SCREW,8ZG5S+2-4 W/O
27	8A-KC7-209-010		HLDR,BTN R1-AC7	F	87-432-903-010		WASHER,WTE 2.6
28	8A-KC7-013-010		BTN,CLEAR ML -AC	G	87-251-100-410		U+3-16
29	8A-KC7-210-010		HLDR,BTN R2-AC7	H	87-B10-259-010		UT2+3.0-10.0 W/O SLOT (BH TAP)
30	8A-KC7-205-010		LENS,ENCO-AC7	I	87-253-034-410		U+2-5 BLK
31	8A-KC7-009-010		BTN,LO-AC7	J	8Z-KC1-246-010		S-SCREW,2.0-2.5 -10
32	8A-KC7-206-010		LENS,R-AC7	K	8Z-KC1-254-010		S-SCREW,PT 2*5 BH+ BLK
33	8Z-KC1-229-010		HLDR,DAMPER F ASS'Y-C	L	8Z-KC1-247-010		S-SCREW,GEAR2.0-1.8 -4.2
34	8Z-KT1-250-010		OIL-DMPR,100				
35	8Z-KC1-203-010		GEAR,FLAP -C1				
36	8Z-KC1-222-010		ARM,SENSOR F -C1				
37	8Z-KC1-248-010		SPR-T,SENSOR F-C				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-100-510-130		COVER TOP	36	S1-100-520-170		LEVER, R
2	S1-100-510-090		LEVER RELEASE	37	S1-100-520-140		GEAR H CAM
3	S1-100-510-180		ARM START SET	38	S1-100-540-080		SP SUB DAMPER
4	S1-100-520-220		LEVER, SENSOR	39	S1-100-510-080		ARM, R
5	S1-100-540-070		SP LEVER SENSOR	40	S1-100-520-180		LEVER, LOCK
6	S1-100-520-050		DISC ARM L	41	S1-100-540-030		DAMPER SP
7	S1-100-530-260		ROLLER ARM DISC	42	S1-100-520-130		GEAR LOAD
8	S1-100-540-040		SP ARM DISC	43	S1-100-520-120		GEAR L H
9	S1-100-520-060		DISC ARM R	44	SX-100-710-030		CHASSIS ASSY
10	S1-100-570-760		SW, LOAD MPU10853MLB2	45	S1-100-520-160		LEVER, KICK
11	S1-100-520-230		GUIDE TOP	46	S1-100-520-270		LEVER, SUB KICK
12	S1-100-510-070		PLATE CLAMPER	47	S1-100-760-010		DAMPER ASSY
13	S1-100-520-040		CLAMPER	48	S1-100-510-060		BRACKET, L M
14	S1-100-740-020		SP, ARM CHUCK (L)	49	S1-100-520-200		MOTOR WORM
15	S1-100-510-030		ARM CHUCK	50	S1-100-770-080		MOTOR LOAD
16	S1-100-740-040		SP ARM CHUCK (R)	51	S1-100-540-090		SP GEAR SUB
17	S2-181-600-50D		PSW, 1.6-5-0.25 (CUT)	52	S1-100-520-030		GEAR SUB CAM
18	S1-100-750-020		ROLLER LOADING	53	S1-100-520-250		LEVER, SW
19	S1-100-570-070		SW, LNNER	54	S1-100-520-210		GEAR, ROLLER
20	S1-100-570-140		LEAD SW A	55	S1-100-530-250		PIN ARM DISC
21	S1-100-570-150		LEAD SW B	56	S1-100-520-020		GEAR CAM
22	S1-100-530-060		SHAFT ROLLER	A	S1-100-550-030		SCREW, XP
23	S1-100-740-010		SP FEED	B	S2-101-170-22P		(+) P. PRECISION SCREW M1.7-2.2
24	S1-100-510-110		GUIDE, SPG	C	S2-103-170-60P		(+) P. PRECISION SCREW M1.7-6
25	S1-100-720-040		GUIDE A	D	S2-103-200-40P		(+) P. PRECISION SCREW M2.0-4.0
26	S1-100-570-790		FLEX PICK (FOC)	F	S2-101-200-25P		(+) P. PRECISION SCREW M2.0-2.5
27	S1-100-770-090		PICK KSS-710A				
28	S1-100-540-100		SP LEVER UP				
29	S1-100-520-240		LEVER, UP				
30	S1-100-270-030		MOTOR, MAIN FF-030PK				
31	S1-100-520-110		GEAR MOTOR FEED				
32	S1-100-520-190		CASE, MOTOR				
33	S1-100-730-010		SCREW, FEED				
34	S1-100-520-090		GEAR, FEED A				
35	S1-100-520-300		GEAR FEED B				

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-KC8-902-010	IB, YL (3L)	7070M<YL>
1	8A-KC8-901-010	IB, YU (3L)	707M<YU>
2	8A-KC7-902-010	IB, INST, YU, YL	(3L, P)
3	87-B10-141-010	NUT, 5	TYPE-2
4	87-B10-143-010	UT1+5-15	W/O SLOT
5	87-B10-144-010	W, 5.2-10-0.5	
6	87-B10-145-010	W-SPR, 5.3-8.5-1.5	
7	87-B10-216-010	U+2.6-4.0	ZINC BLK (BH M2.6)
8	8Z-KC1-030-010	CASE, DFP	-C
9	8Z-KC1-231-110	HLD, HALF	-C
10	8Z-KC1-232-010	KEY, REMOVE	-C
11	8Z-KC1-235-010	HLD, REAR	MTG
12	8Z-KC1-244-010	S-SCREW, 5*6	TH+ TAPPING ST
13	8Z-KC1-250-010	S-SCREW, HEXAGON	
14	8Z-KT1-616-010	CONN ASSY, 16P	B52
*15	R8-AZR-190-040	AZR-1	RCKCGNF

*NOTE: This remote controller is not an accessory part.
It is an individual model.

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